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LETTER REPORT ON ADDITIONAL SITE SCREENING RESULTS AND CONCLUSIONS AT  
STUDY AREA 2 NTC ORLANDO FL  
7/31/1997  
ABB ENVIRONMENTAL

**STUDY AREA 2, HERNDON ANNEX  
STATUS AND PLANS  
JULY 31, 1997**

**BACKGROUND**

The letter workplan dated June 17, 1997 briefly stated the findings and results for previous work at the Annex and recommended the following activities;

- \* Install six DPT pushes along the eastern boundary but west of the drainage ditch. Four would be placed adjacent to sample locations 02Q02201, 02, 03 and 02901. Two would be placed closer to Lake Barton. All six locations would be sampled for VOCs at approximately 30, 40, 50 and 60 feet bls. These locations are shown on ATTACHMENT A.
- \* Install three groundwater wells on Annex property that corresponded to previous DPT sample locations that contained the elevated concentrations of benzene.
- \* Sample all installed wells for VOCs and natural attenuation parameters.
- \* Install and sample well points in the drainage ditch to the west of Herndon Annex.
- \* If benzene contamination was found in the DPT locations described above, install six additional DPT locations ; three in an east-west line along Brosche street (County property) and three in a north-south line along Nancy Lee Ave. (City property). These would also be sampled at the same depth intervals as the first six DPT locations.
- \* Sample irrigation wells in the area that are screened in the surficial aquifer.

**WORK ACCOMPLISHED**

As of 7/31/97 the following work has been accomplished:

- \* Six DPT locations along the eastern boundary but west of the ditch were installed and sampled.
- \* Four well points were installed in the ditch and sampled.
- \* Permits for DPT work from the County and the City were applied for and received.
- \* Four temp wells were installed to a depth of 12 feet and sampled. Two were installed next to the DPT locations by the lake and two were installed along the eastern boundary, west of the ditch at an equal spacing between DPT location 03 and 04. These were installed because DPT samples from locations 04 and 05 (closest to the lake) were non-detect.

**FINDINGS**

- \* Four of the six initial DPT locations had detections of Benzene above Florida's MCLs. The two DPT locations by the lake were non-detect. The four DPT locations had benzene at depths down to 53 feet with the highest concentration of 151.8 ppb at 40-43 feet in DPT location 00. DPT 01 had concentrations of 138.0 ppb at 45-48 feet. TCE was detected at 13.2 ppb in DPT location 01 at 45-48 feet. Cis 1,2 DCE was also detected in the four DPT locations that contained benzene. The Hawthorn formation was encountered at approximately 53-55 feet

therefore samples were not taken below that depth. Analytic results are shown in ATTACHMENT C. A profile view is shown in ATTACHMENT D.

- \* Two of the four well points installed in the ditch had concentrations of benzene. All four were placed at a depth of about 1-3 feet below the bottom of the ditch which is about 15-17 feet bls. Location 06 had 10.35 ppb benzene and .82 ppb 1-2 cis DCE and location 07 had 30.74 ppb benzene and 3.14 ppb 1-2 cis DCE.
- \* Results from the temp wells have not yet been received.

### **RECOMMENDATIONS FOR ADDITIONAL WORK**

The scope of work listed above, taken from the letter workplan, has not yet been completed. It is recommended that the planned work be accomplished. This would include installation of three wells on Herndon Annex property and sampling of all existing wells for VOCs and natural attenuation parameters. The well installation is currently scheduled to begin on 8/4/97 with sampling to follow. It is also recommended that the neighborhood flier (ATTACHMENT B) be modified to include current knowledge and an invitation to the next RAB meeting during which Herndon Annex could be the topic of discussion. Also called out in the work plan is to locate and sample any local irrigation wells for VOCs. We would recommend that an area north of Kalmia Street and west of Slover Ave be canvassed by either city employees or one ABB and one Navy person, with the flier in hand. Well sampling may take place at a later date, after results from all DPT sample locations were reviewed. Finally, install and sample the currently planned DPT locations in the residential area.

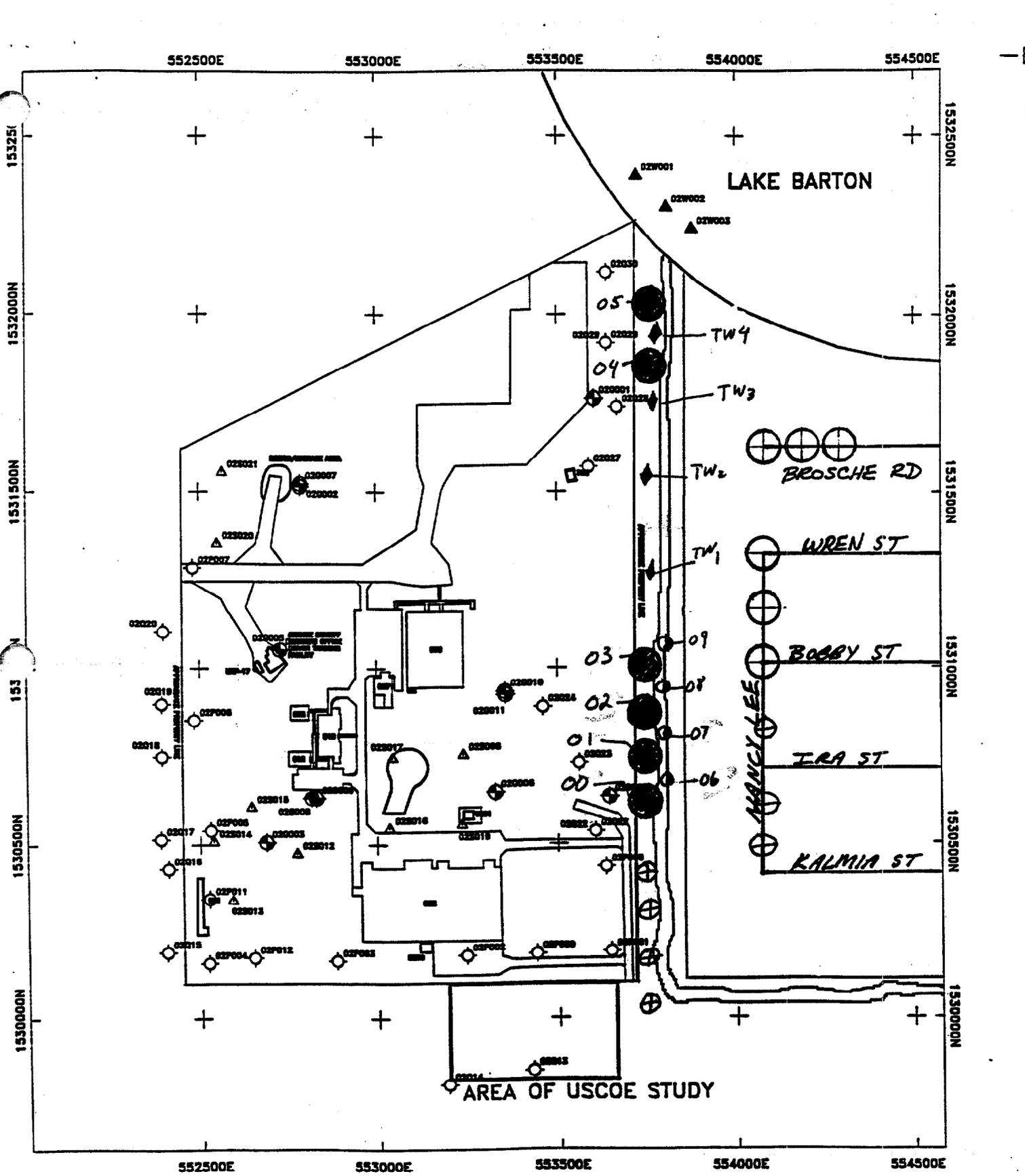
### **ADDITIONAL WORK**

Based on current findings the following additional work is recommended.

- \* Generate new permit requests for additional DPT and well locations (City).
- \* Install and sample four additional DPT pushes along the eastern boarder but immediately south of the current DPT locations.
- \* Add three more DPT pushes to Nancy Lee street, immediately south of the currently planned DPT locations.
- \* Install enough Piezometers in the residential area to validate groundwater direction.
- \* Add one "sentinel well" on western Wren street as a down gradient clean well.

**NOTE :** Based on the current contamination scenario hypothesis and expected groundwater patterns in the residential area to the west of Herndon Annex, the work described above should be all that is required in the residential area. However because of the investigative nature of the work, additional work that may be required would only be determined after a complete review of all acquired data.

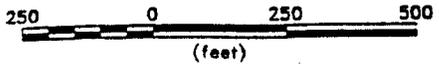
ATT A



- ⊕ PROPOSED DPT LOCATIONS
- Completed DPT
- ⊙ Completed well points

◆ Completed Temp Wells

Scale 1:4800



SOUTHERN DIVISION
PROPOSED DPT LOCATIONS AND EXISTING SAMPLE LOCATIONS HERNDON ANNEX
ABB ENVIRONMENTAL SERVICES, INC.
FIGURE 1

ATT B



## Naval Training Center Orlando, Florida



### Environmental Studies Herndon Annex

The Naval Training Center (NTC) is currently conducting environmental investigations and cleanup actions as part of the Department of Defense's Installation Restoration program. Through this program, sites which were contaminated as a result of past practices will be identified, evaluated, and if necessary, cleaned up.

One of the locations currently being studied is known as the Herndon Annex. Groundwater samples have been taken from the Annex within the past year. Analysis of these samples detected some chemicals most likely associated with the disposal of petroleum products.

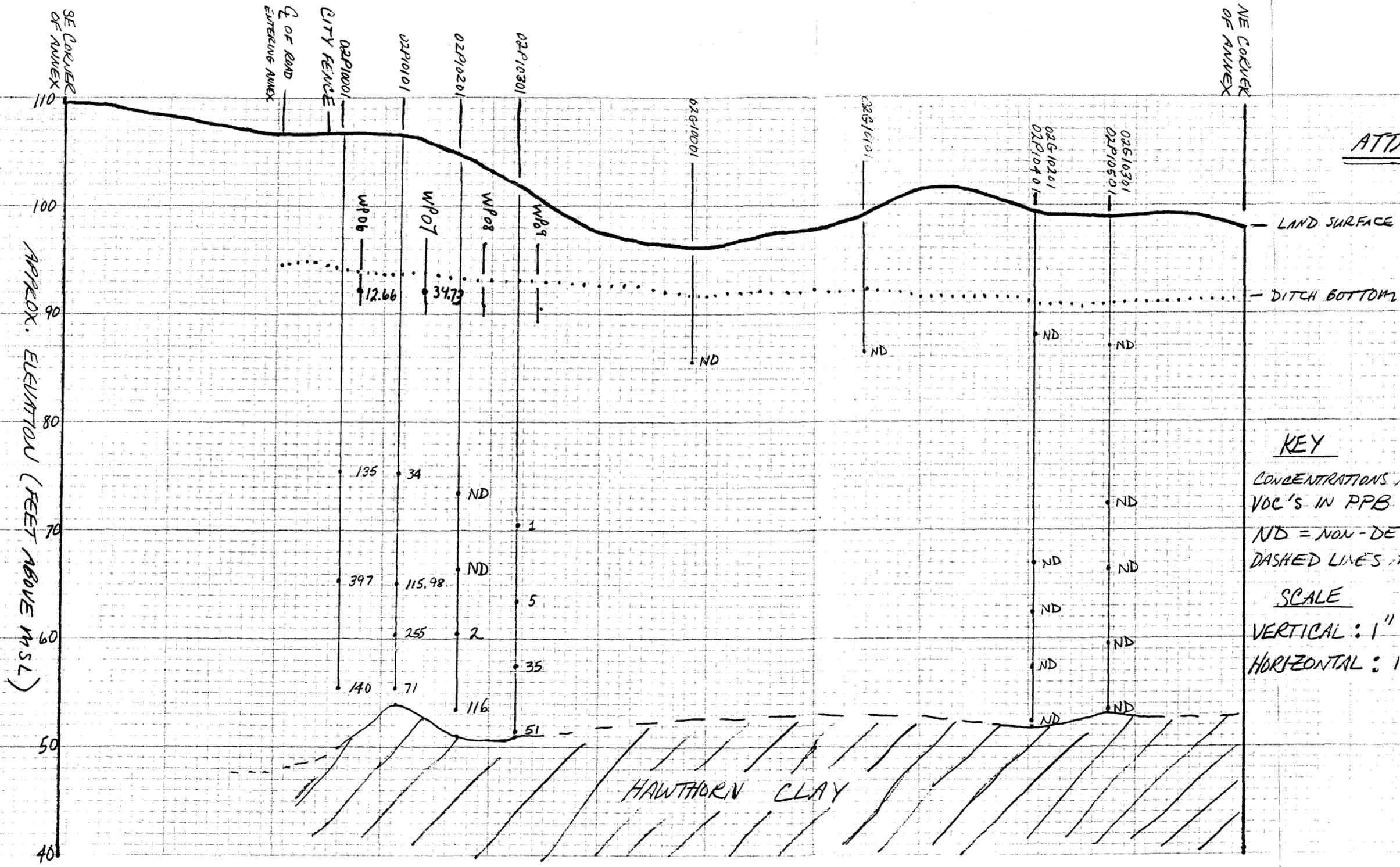
As part of the continuing investigation at the Herndon Annex, a follow-up round of groundwater sampling to the east of the Annex is scheduled to begin on July 21, 1997 and will last about two weeks. You may notice personnel from the Navy's environmental contractor collecting groundwater samples near your area from city and county right-of-ways. These people will be wearing protective gloves, a standard practice for this type of sampling. After the samples have been collected and analyzed, the results will be shared with the community through notices like this and at advertised meetings which are open to the public.

If you have any questions on the sampling at the Herndon Annex or on the NTC environmental program in general, please call:

**Lt. Robert Mehal, Tel. 646-4430**

ATT C

ATTACHMENT D



KEY  
 CONCENTRATIONS ARE TOTAL VOC'S IN PPB  
 ND = NON-DETECTION  
 DASHED LINES ARE APPROXIMATION

SCALE  
 VERTICAL: 1" = 10'  
 HORIZONTAL: 1" = 200'